WHAT IS CLAIMED IS:

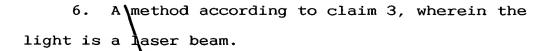
- 1. A method for manufacturing an electronemitting device, comprising:
- a step for forming a polymer film between a pair of electrodes formed on a substrate;
- a step for giving conductivity to said polymer film by heating; and
- a step for providing potential difference between said pair of electrodes.
- 2. A method according to claim 1, wherein the step for giving conductivity to said polymer film by heating includes a step for illuminating an electron beam onto at least a part of said polymer film.
- 3. A method according to claim 1, wherein the step for giving conductivity to said polymer film by heating includes a step for illuminating light onto at least a part of said polymer film.
- 4. A method according to claim 3, wherein the light is light emitted from a xenon lamp as a light source.
- 5. A method according to claim 3, wherein the light is light emitted from a halogen lamp as a light source.

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- 7. A method according to claim 1, wherein said polymer film is an aromatic polymer film.
- 8. A method according to claim 1, wherein the step for forming a polymer film utilizes an ink jet system.

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9. A method for manufacturing an electronemitting device, comprising:

a step for forming a polymer film between a pair of electrodes formed on a substrate;

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a step for reducing electrical resistance of said polymer film by heating said polymer film; and

a step for providing potential difference between said pair of electrodes.

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10. A method according to claim 9, wherein the step for reducing electrical resistance of said polymer film by heating said polymer film includes a step for illuminating an electron beam onto at least a part of said polymer film.

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11. A method according to claim 9, wherein the step for reducing electrical resistance of said polymer

film by heating said polymer film includes a step for illuminating light onto at least a part of said polymer film.

- 5 12. method according to claim 11, wherein the light is light emitted from a xenon lamp as a light source.
- A method according to claim 11, wherein the 10 light is light emitted from a halogen lamp as a light source.
 - A method according to claim 11, wherein the 14. light is a laser beam
 - A method according to claim 9, wherein the step for forming a polymer film utilizes an ink jet system.
- 20 A method for manufacturing an electronemitting device, comprising:
 - a step for forming a polymer film between a pair of electrodes formed on a substrate;
- a step for illuminating an electron beam onto at least a part of said polymer film; and 25
 - a step for providing potential difference between said pair of electrodes.

17. A method according to claim 16, wherein the step for illuminating the electron beam onto said polymer film includes a step for giving conductivity to at least a part of said polymer film.

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18. A method according to claim 16, wherein the step for illuminating the electron beam onto said polymer film includes a step for reducing electrical resistance of said polymer film.

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- 19. A method according to claim 16, wherein said polymer film is an aromatic polymer film.
- 20. A method according to claim 16, wherein the step for forming a polymer film utilizes an ink jet system.
 - 21. A method for manufacturing an electronemitting device, comprising:
- a step for forming a polymer film between a pair of electrodes formed on a substrate;
 - a step for illuminating light onto at least a part of said polymer film; and
- a step for providing potential difference between 25 said pair of electrodes.
 - 22. A method according to claim 21, wherein the

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step for illuminating light onto said polymer film includes a step for giving conductivity to at least a part of said polymer film.

23. A method according to claim 21, wherein the step for illuminating light onto said polymer film includes a step for reducing electrical resistance of said polymer film.

24. A method according to claim 23, wherein the light is light emitted from a xenon lamp as a light source.

25. A method according to claim 23, wherein the light is light emitted from a halogen lamp as a light source.

- 26. A method according to claim 23, wherein the light is a laser beam.
- 27. A method according to claim 21, wherein said polymer film is an aromatic polymer film.
- 28. A method according to claim 21, wherein the step for forming a polymer film utilizes an ink jet system.

29 A method for manufacturing an electron source having a plurality of electron-emitting devices, wherein:

said electron-emitting device is manufactured in accordance with any one of methods according to claims 1 to 28.

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30. A method for manufacturing an image-forming apparatus having an electron source including a plurality of electron-emitting devices, and an image-forming member for forming an image by illumination of electron emitted from said electron source, wherein:

said electron source is manufactured by a method according to claim 29.